

ABSTRACT

Ayu R izkiyah Harahap: The influence of the Contextual Teaching and Learning (CTL) model assisted by Wordwall media on cognitive learning outcomes and student learning motivation in thermochemistry material. Chemistry Education Study Program, FKIP Malikussaleh University, 2026.

This study aims to determine the effect of the Contextual Teaching and Learning (CTL) model assisted by Wordwall media on cognitive learning outcomes and student learning motivation in thermochemistry material. This study is an experimental study with a pre-experimental design using the Intact Group Comparison model . The population in this study were all students of class XI of SMA Negeri 7 Lhokseumawe in the 2025/2026 academic year, totaling 95 students, with a sample of two classes selected using purposive sampling techniques , namely class XI-1 as the experimental class and class XI-2 as the control class, each totaling 25 students.

The data collection instruments used were a multiple-choice test to measure cognitive learning outcomes and a Likert- scale questionnaire to measure student learning motivation, which was administered after treatment. The data analysis technique used was a normality test. using Shapiro-Wilk, homogeneity test using Levene statistics, and hypothesis testing using independent sample t-test . Data on students' cognitive learning outcomes after implementing the CTL model assisted by wordwall media with a percentage of 77 % and learning motivation data with a percentage of 84.07%. The results of the hypothesis test on cognitive learning outcomes show a sig. (2-tailed) value of 0.001 <0.05. Similarly, the results of the hypothesis test on the results of the motivation questionnaire show a sig. (2-tailed) value of 0.001 <0.05. This indicates that H_0 rejected and H_a accepted. It can be concluded that the study shows that there is an influence of the Contextual Teaching and Learning (CTL) model assisted by Wordwall media on students' cognitive learning outcomes and learning motivation in thermochemistry material.

Keywords: Contextual Teaching and Learning Model, Wordwall Media, cognitive learning outcomes, learning motivation, thermochemistry.